

USPTO Serial No. 10/613,281
Brookshire, M.
Response to Office Action mailed March 22, 2005

Amendment to the Claims:

1-24. (Canceled)

25. (New) A naturally occurring precious gemstone, comprising:
a pavilion having a plurality of facets extending from a common point radially to a girdle region around a circumference of the naturally occurring precious gemstone; and

a crown meeting the pavilion in the girdle region, wherein the girdle region extends no further than the widest circumference of the crown and the pavilion extends no further than the widest circumference of the girdle region, the crown being a symmetrical hemisphere formed from a plurality of rows of facets with an equal number of facets in each row, the plurality of rows of facets extending continuously from the girdle region to a top point of the crown of the naturally occurring precious gemstone, each row of facets being cut with respect to a reference line tangential to the top point of the crown, a first row of facets being cut about 15 degrees, a second row of facets being cut about 19 degrees, a third row of facets being cut about 25 degrees, a fourth row of facets being cut about 30 degrees, a fifth row of facets being cut about 34 degrees, a sixth row of facets being cut about 38 degrees, a seventh row of facets being cut about 46 degrees, an eighth row of facets being cut about 56 degrees, a ninth row of facets being cut about 65 degrees, a tenth row of facets being cut about 75 degrees, and an eleventh row of facets being cut about 90 degrees.

USPTO Serial No. 10/613,281

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26. (New) The naturally occurring precious gemstone of claim 25, wherein each of the plurality of rows of facets contain 16 individual facets.

27. (New) The naturally occurring precious gemstone of claim 25, wherein the pavilion is cut to contain 16 facets.

28. (New) The naturally occurring precious gemstone of claim 25, wherein the plurality of facets in the pavilion are cut 40.75 degrees with respect to the reference line.

29. (New) The naturally occurring precious gemstone of claim 25, wherein the top point of the crown is cut as a star-shaped center facet.

30. (New) The naturally occurring precious gemstone of claim 25, wherein a facet in one row is disposed between two facets of an adjacent row.

31. (New) The naturally occurring precious gemstone of claim 25, wherein the facets are formed as parallelograms.

32. (New) A naturally occurring precious gemstone, comprising:
a pavilion having a plurality of facets extending from a common point radially to a girdle region around a circumference of the naturally occurring precious gemstone; and

a crown meeting the pavilion in the girdle region, wherein the girdle region extends no further than the widest circumference of the crown and the pavilion extends no further than the widest circumference of the girdle region, the crown

USPTO Serial No. 10/613,281
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being formed from a plurality of rows of facets with an equal number of facets in each row, the plurality of rows of facets extending continuously from the girdle region to a top point of the crown of the naturally occurring precious gemstone, each row of facets being cut with respect to a reference line tangential to the top point of the crown, a first row of facets being cut about 15 degrees, a second row of facets being cut about 19 degrees, a third row of facets being cut about 25 degrees, a fourth row of facets being cut about 30 degrees, a fifth row of facets being cut about 34 degrees, a sixth row of facets being cut about 38 degrees, a seventh row of facets being cut about 46 degrees, an eighth row of facets being cut about 56 degrees, a ninth row of facets being cut about 65 degrees, a tenth row of facets being cut about 75 degrees, and an eleventh row of facets being cut about 90 degrees.

33. (New) The naturally occurring precious gemstone of claim 32, wherein each of the plurality of rows of facets contain 16 individual facets.

34. (New) The naturally occurring precious gemstone of claim 32, wherein the pavilion is cut to contain 16 facets.

35. (New) The naturally occurring precious gemstone of claim 32, wherein the plurality of facets in the pavilion are cut 40.75 degrees with respect to the reference line.

36. (New) The naturally occurring precious gemstone of claim 32, wherein the top point of the crown is cut as a star-shaped center facet.

USPTO Serial No. 10/613,281
Brookshire, M.
Response to Office Action mailed March 22, 2005

37. (New) The naturally occurring precious gemstone of claim 32, wherein the facets are formed as parallelograms.

38. (New) A naturally occurring precious gemstone, comprising:
a pavilion having a plurality of facets extending from a common point radially to a girdle region around a circumference of the naturally occurring precious gemstone; and

a crown meeting the pavilion in the girdle region, wherein the girdle region extends no further than the widest circumference of the crown and the pavilion extends no further than the widest circumference of the girdle region, the crown being a symmetrical hemisphere formed from a plurality of rows of facets with an equal number of facets in each row, the plurality of rows of facets extending from the girdle region to a top point of the crown of the naturally occurring precious gemstone.

39. (New) The naturally occurring precious gemstone of claim 38, wherein each row of facets is cut with respect to a reference line tangential to the top point of the crown, a first row of facets being cut about 15 degrees, a second row of facets being cut about 19 degrees, a third row of facets being cut about 25 degrees, a fourth row of facets being cut about 30 degrees, a fifth row of facets being cut about 34 degrees, a sixth row of facets being cut about 38 degrees, a seventh row of facets being cut about 46 degrees, an eighth row of facets being cut about 56 degrees, a ninth row of facets being cut about 65 degrees, a tenth row of facets being cut about 75 degrees, and an eleventh row of facets being cut about 90 degrees.

USPTO Serial No. 10/613,281

Brookshire, M.

Response to Office Action mailed March 22, 2005

40. (New) The naturally occurring precious gemstone of claim 38, wherein each of the plurality of rows of facets contain 16 individual facets.

41. (New) The naturally occurring precious gemstone of claim 38, wherein the pavilion is cut to contain 16 facets.

42. (New) The naturally occurring precious gemstone of claim 39, wherein the plurality of facets in the pavilion are cut 40.75 degrees with respect to the reference line.

43. (New) The naturally occurring precious gemstone of claim 38, wherein a facet in one row is disposed between two facets of an adjacent row.

44. (New) The naturally occurring precious gemstone of claim 38, wherein the facets are formed as parallelograms.